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B & H Engineering, P.C. is a multi-disciplined transportation engineering firm located in New York City. We are performing bridge and highway inspection services on projects ranging from simple to complex for such agencies as New York State Department of Transportation, New York City Department of Transportation, New York City Department of Design and Construction, MTA Bridges and Tunnels, New ...

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how the design of tunnels depends on site and ground conditions, and which types of tunnels and construction methods are best suited to different conditions. Written by the leading engineers in the fields, this second edition features major revisions from the first, including: \* Complete updating of all chapters from the first edition \* Seven completely new chapters covering tunnel stabilization and lining, difficult ground, deep shafts, water conveyance tunnels, small diameter tunnels, fire life safety, tunnel rehabilitation and tunnel construction contracting \*New coverage of the modern philosophy and techniques of tunnel design and tunnel construction contracting The comprehensive coverage of the Tunnel Engineering Handbook makes it an essential resource for all practicing engineers engaged in the design of tunnels

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and underground construction. In addition, the book contains a wealth of information that government administrators and planners and transportation officials will use in the planning and management of tunnels.

Vast knowledge has been developed in the area of tunnelling in weak rocks over the years, and this book bridges an important gap by bringing all the information together for the benefit of the tunnelling Industry. In particular, tunnelling in poor conditions is a huge challenge for engineers and

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designers, and this book tackles all typical problems headon. Topics covered include classification approach, design approaches for site-specific grounds, a new invention on shielded tunnel boring machine, case histories, tunnel mechanics, risk engineering and management culture. Based on extensive field research experiences in Himalayan region and Alps Exclusive chapters on tunnelling hazards, squeezing ground conditions (a full detailed case study), swelling ground conditions, critical state rock mechanics, etc. Supported by over 180 figures and 90 tables of data, and test examples (with solutions)

Rock Mass Classifications - A Practical Approach in Civil Engineering was written in response to the many unanswered

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questions regarding this subject. Questions such as - Is Classification reasonably reliable? Can it be successful in crisis management of geohazards? Can a single Classification system be general for all rock structures? Is Classification a scientific approach? Laborious field research was undertaken in the Himalayan mountains by a team of scientists from the Central Mining Research Institute (CMRI), University of Roorkee (UOR), Central Soil and Material Research Station (CSMRS), U.P. Irrigation Research Institute (UPIRI), and Norwegian Geotechnical Institute (NGI) to answer these questions. The results obtained from the research work were systematically compiled to produce this book which bears particular relevance to civil, mining and petroleum engineers and geologists. Endorsements "It is a

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Handbook of Rock Engineering" - Zhao Jian, School of Civil & Structural Engineering, Nanyang Technological University, Singapore "I came across your new book - Rock Mass Classification, absolutely fantastic" - Subodh K. Jain, U.S.A

TRB's National Cooperative Highway Research Program (NCHRP) 415: Design Fires in Road Tunnels information on the state of the practice of design fires in road tunnels, focusing on tunnel fire dynamics and the means of fire management for design guidance.

- Introduction - Affects of geological conditions of grouting - Structural and operations requirements of the completed facility - Grouting of various lining types - Grout materials -

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Grout properties - Backfill grouting - Contact grouting - Grouting equipment - Record keeping - Quality control - Contract documents

The so-called fourth dimension of a metropolis is the underground space beneath a city which typically includes structures such as tunnels, which facilitate transport and provide gas, water and other supplies. Underground space may also be utilised for living, working and recreational facilities and industrial storage. These volumes focus on underground city design and planning; geotechnical survey and improvement of ground mass; and research,

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development and design of underground constructions in built-up areas. Also covered is the construction and monitoring of urban tunnels, including underground constructions executed from the surface; distribution and management of risks and accidents during tunnelling; tunnel equipment; fire and operational safety. This collection of papers will be invaluable to researchers, scientists, engineers and professionals working in the underground space.

Developments in Geographic Information Technology have raised the expectations of users. A static map is no longer enough; there is now demand for a dynamic representation. Time is of great importance when operating on real world geographical phenomena, especially when these are



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dynamic. Researchers in the field of Temporal Geographical Information Systems (TGIS) have been developing methods of incorporating time into geographical information systems. Spatio-temporal analysis embodies spatial modelling, spatio-temporal modelling and spatial reasoning and data mining. Advances in Spatio-Temporal Analysis contributes to the field of spatio-temporal analysis, presenting innovative ideas and examples that reflect current progress and achievements.

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